

Re: portals**Sabrina Forrest** to: Terry Kerwin

09/21/2011 09:36 AM

From: Sabrina Forrest/R8/USEPA/US

To: "Terry Kerwin" <kerwintm@frontier.net>

Hello again Terry, While I am not a remediation manager, I have participated in the many conversations that stakeholders have had over the years. It seems the treatments that most often come up are:

- Active Water Treatment (passive treatment, such as wetlands, won't do enough, but might be useful further downstream to help sequester some metals after the main treatment removes as much as possible)
- Temporary active water treatment while other remedies are being investigated or while a permanent active water treatment plant is being constructed
- More bulk heads (with the attendant questions regarding whether other seeps, springs, large flows could create more problems, plus the issue that mining concerns would have a harder time getting to viable resources)
- Removal of bulk heads in the American Tunnel to reduce flows from upper adits
- In-situ treatment of mine pool
- Some combination of the above

The stakeholder group has convened a "Upper Cement Creek Working Group" to focus on possible remedies and the process by which to get to a remedy(ies). One key interest of this group is to try to find and test water treatment methods that don't create as much waste/sludge as the usual lime-feed systems. I think it will be key to have locals involved who have mining and mine water treatment/management experience. Your thoughts and those of others in the community are valuable and I encourage your involvement.

Sincerely,

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"Terry Kerwin" ---09/17/2011 02:14:41 PM---Hi again Sabrina;
the mayor. (I only

Once again, this is the milkman writing, not

From: "Terry Kerwin" <kerwintm@frontier.net>
To: Sabrina Forrest/R8/USEPA/US@EPA

Date: 09/17/2011 02:14 PM
Subject: portals

Hi again Sabrina;

Once again, this is the milkman writing, not the mayor. (I only speak or write as the mayor when the board directs me to do so.)

We, old guys, talking over coffee seem to look at remediation on cement creek as being only two options – plugging numerous portals or treating a lot of water. Are there other options? I don't mean the details, but other approaches than these two. -- Terry